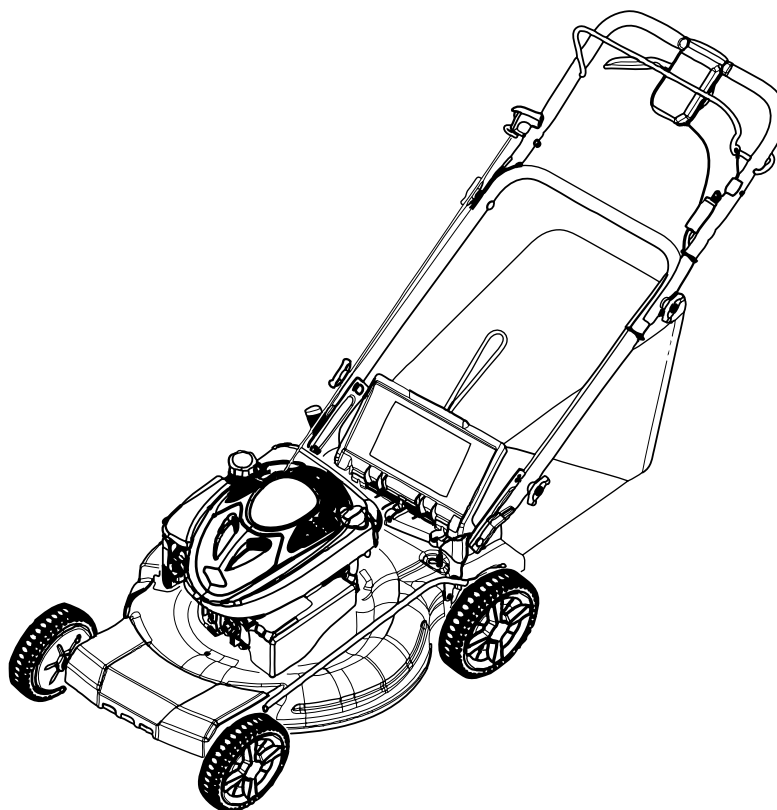


7800822 - BTXPV22700E

Parts Manual



Manual Part No. 1752882

Revision -

Rev. Date: 5/10/2011

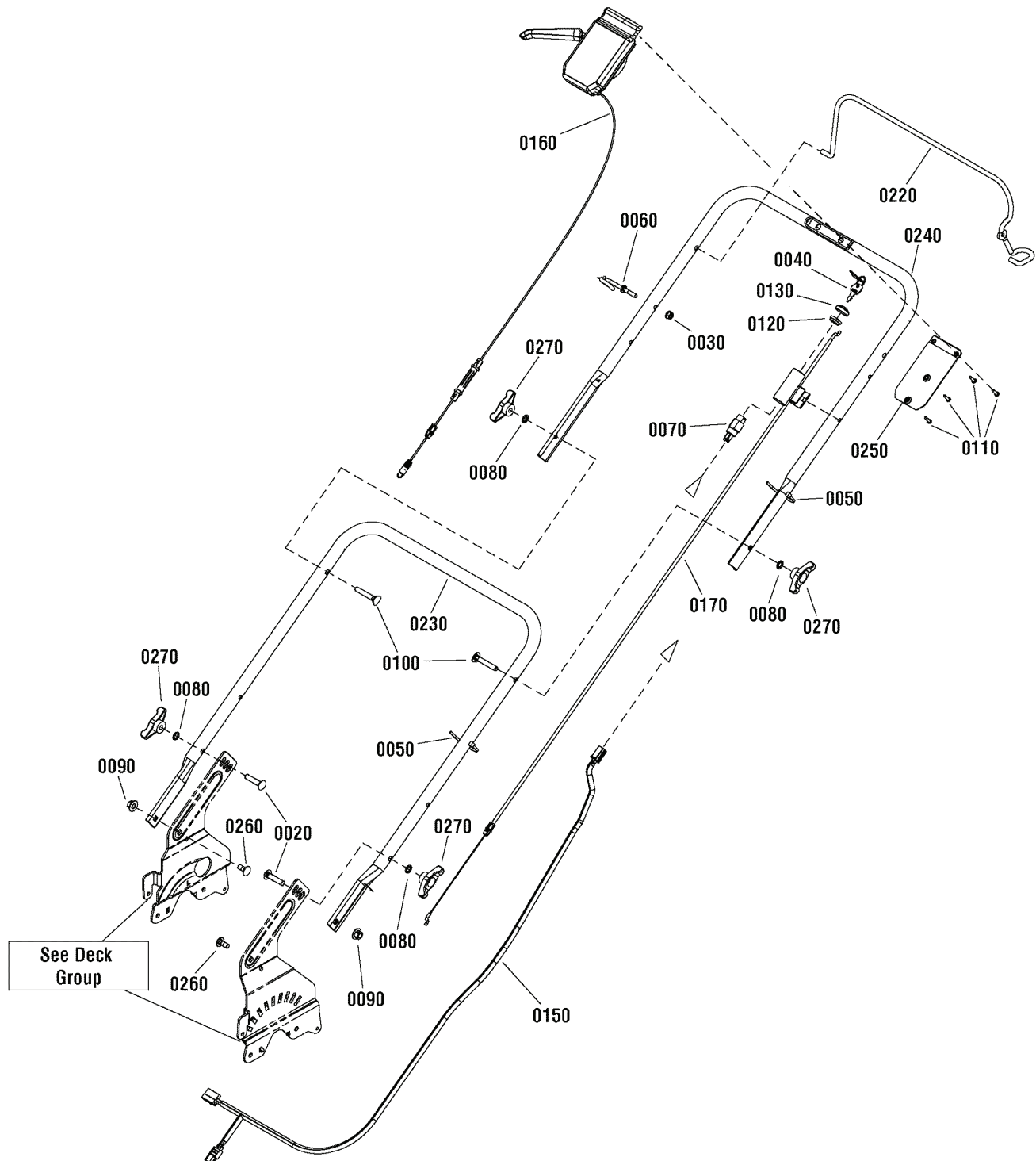
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Handles Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

7800822 - BTXPV22700E

Handles Group

REF NO	PART NO.	QTY.	DESCRIPTION
0020	1931337SM	2	BOLT, Carriage, Short Neck, 5/16-18 x 1-1/2, G5
0030	2860694SM	1	NUT, Hex Flange, Esna, 1/4-20
0040	7011138YP	1	IGNITION KEY, Pair
0050	7024649YP	2	WIRE TIE, 11 Inch Std Black Nylon
0060	7028488MA	1	GUIDE, Rope
0070	7028765YP	1	SWITCH, ES Start / Run
0080	7090391SM	4	WASHER, Internal Tooth Lock, 5/16"
0090	7090951SM	2	NUT, 5/16-18 Hex Large Flange Center Lock
0100	7091189YP	2	BOLT, Curved Head Square Neck, 5/16-18 x 2", GR 2
0110	7100225YP	4	SCREW, #8-16 Torxplus Recessed Pan Head, Twin Helix
0120	7100329YP	1	NUT, Electric Start 5/8-32
0130	7100330YP	1	CAP, Electric Start
0150	7103676YP	1	WIRING HARNESS, Electric Start
0160	7103890YP	1	CONTROL BOX ASSEMBLY
0170	7103973YP	1	CABLE, Bail, 21", WBM, Brute, Electric Start
0220	7101731AMA	1	BAIL, Brute SP, Operator Presence Control
0230	7300592AMA	1	HANDLE, Lower, 21" Rear Discharge
0240	7300676AMA	1	HANDLE, Upper, Propelled
0250	7300130AMA	1	PLATE, Control Panel
0260	340720MA	2	BOLT, Carriage, 5/16 - 18 x 3/4
0270	7035744YP	4	KNOB, 5/16-18, Wing, Black

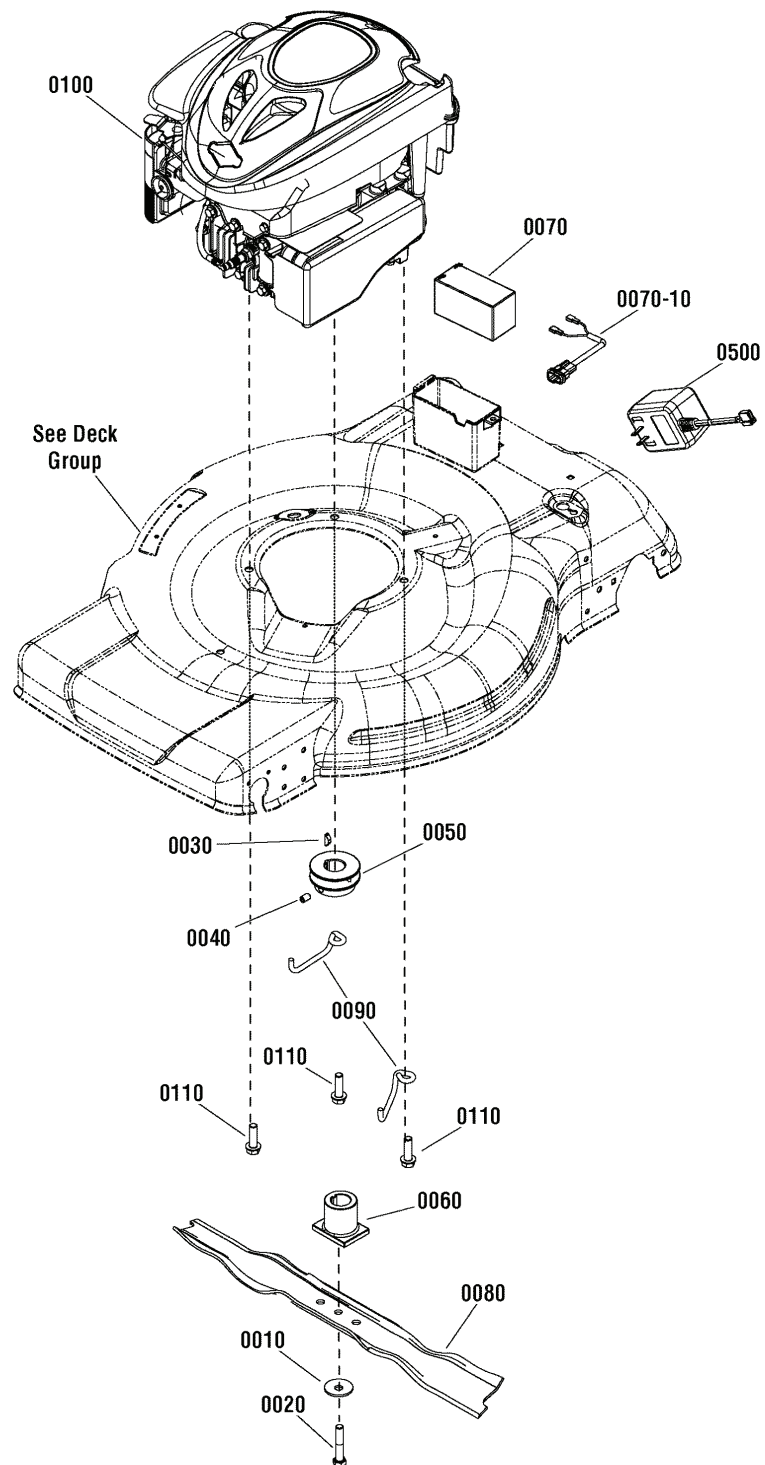
Footnotes

The above parts group applies to the following Mfg. Nos.:

7800822 - BTXPV22700E

Engine Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

7800822 - BTXPV22700E

Engine Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	7012063SM	1	WASHER, Cone
0020	7090167SM	1	CAPSCREW, Hex Head, 3/8-16 x 2, GR 5
0030	7091214YP	1	KEY, Hi-Pro, #605
0040	7092086YP	1	SET SCREW, Hex Recess, 5/16-18 x 1/2
0050	7100437YP	1	PULLEY, ENGINE
0060	7101414YP	1	BLADE HUB, 21" WBM, Rear Discharge, 2 Position
0070	7102931YP	1	BATTERY, 12V, 1.3 A/HR, Type G Terminals
0070-10	7102968YP	1	HARNESS, Battery, 1.3 A/HR
0080	7103288YP	1	BLADE, Wave, Steel Deck
0090	7103517YP	2	BELT GUIDE, Engine, Front Wheel Drive
0100	128T05-0120-B1	1	* ENGINE, 700 Series Quantum Electric Start
0110	7900072YP	3	SCREW, Hex Washer Self Tap, 3/8-16 x 1-1/4
0500	7103988YP	1	CHARGER, Battery, 120V/14V 260MA

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Footnotes

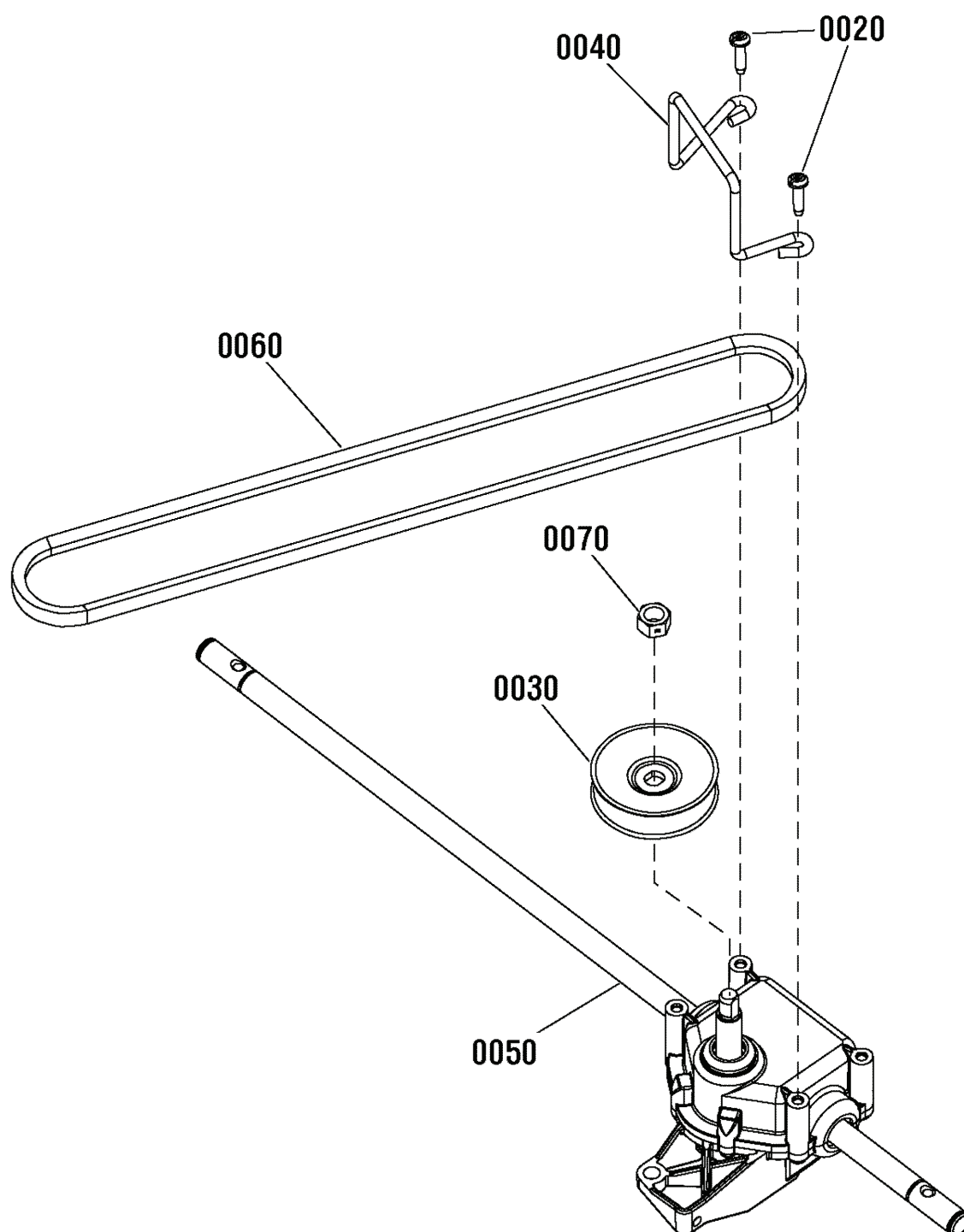
Note* See your local Briggs & Stratton distributor for parts and service.

The above parts group applies to the following Mfg. Nos.:

7800822 - BTPV22700E

Transmission Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:
7800822 - BTXPV22700E

Transmission Group

REF NO	PART NO.	QTY.	DESCRIPTION
0020	7091195SM	2	SCREW, Pan Head Combo Taptite, #10-16 x 3/4
0030	7100240YP	1	PULLEY, Transmission, Var Speed
0040	7100863YP	1	BELT GUIDE, Transmission
0050	7103312YP	1	TRANSMISSION, VS, RWD
0060	7103364YP	1	BELT, 3L, Traction Drive, 22 WBM, RWD
0070	7091585SM	1	NUT, Center Lock Hex, 3/8-16, GR 5

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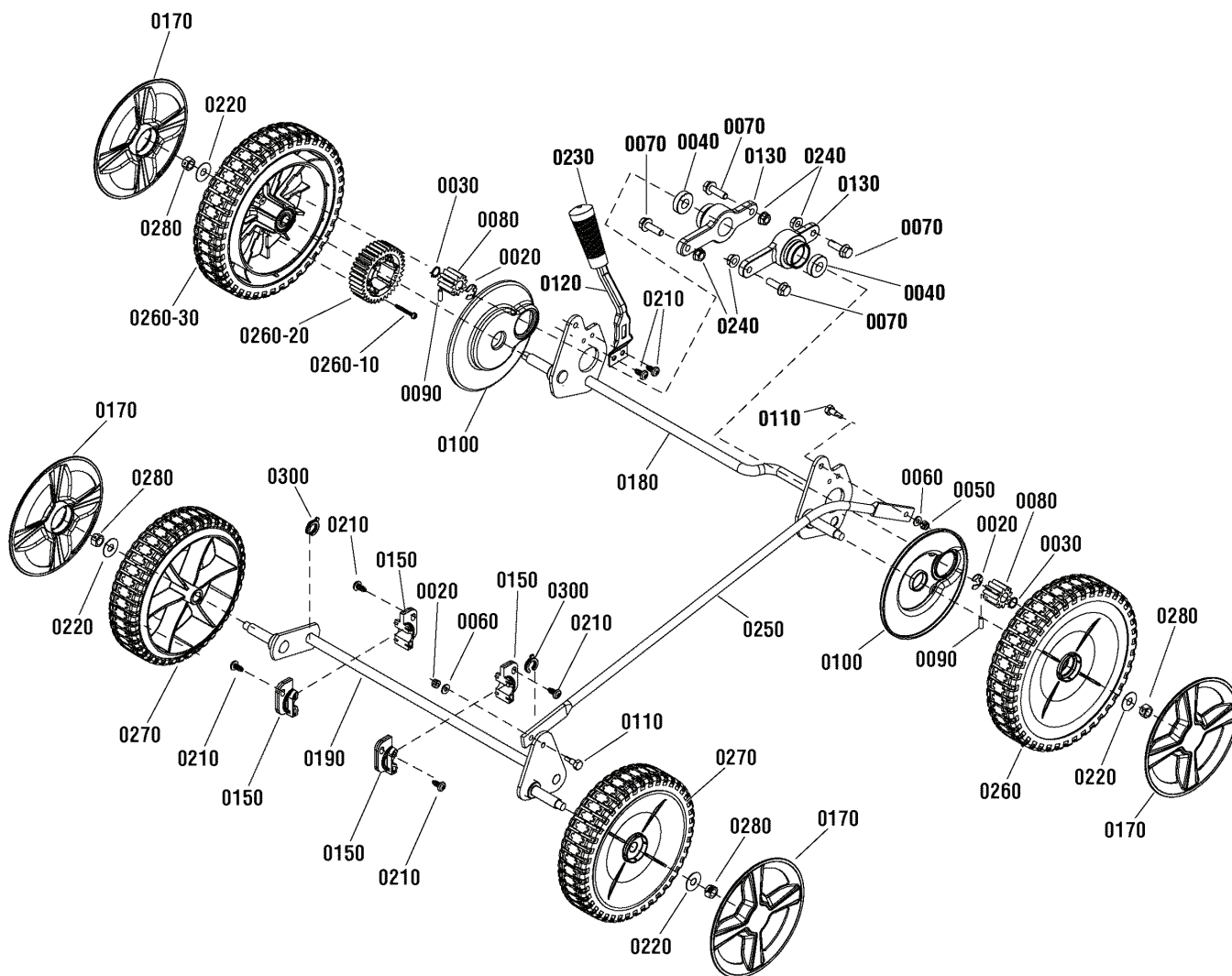
Footnotes

The above parts group applies to the following Mfg. Nos.:

7800822 - BTXPV22700E

Wheels Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

7800822 - BTXVPV22700E

Wheels Group

REF NO	PART NO.	QTY.	DESCRIPTION
0020	7014341YP	2	RING, External Retaining
0030	7027999YP	2	RING, Retaining
0040	7078243YP	2	BALL BEARING, Axle
0050	7091290SM	2	NUT, #10-24 Hex Nyloc
0060	7091552SM	2	WASHER, Flat, 1/4
0070	7091591SM	4	BOLT, 5/16-18 x 1" Hex Flange Lock, GR 5, YZ
0080	7100820YP	2	GEAR, Pinion
0090	7100861YP	2	PIN, Axle
0100	7101367YP	2	SHIELD, DUST, 21" WBM, RD
0110	7101774YP	2	BOLT, Shoulder, 1/4 x 3/8
0120	7103289YP	1	LEVER, Spring, Height-Of-Cut
0130	7103290YP	2	HOLDER, Bearing, Rear Wheel Drive
0150	7104518YP	4	BUSHING, Bearing, RWD
0170	7103539YP	4	HUBCAP, 8" & 9" Wheel Spoked, P-391 St Yellow
0180	7400259YP	1	WELDMENT, Rear Crossbar, RWD
0190	7400306YP	1	AXLE, Front
0210	7900067YP	6	SCREW, Pan Head, Self Tap, Torx, 1/4-20 x 1/2
0220	17X169MA	4	WASHER, Flat, 3/8
0230	671297MA	1	GRIP, Height-Of-Cut
0240	7091601SM	4	NUT, Hex Flange Centerlock, 5/16-18
0250	7103306ZYP	1	ROD, Lifter Link, WBM
0260	-----	2	WHEEL ASSEMBLY
0260-10	7091196SM	3	SCREW, Hex Washer Self-Tap, Hi-Lo, #8 x 1-1/4
0260-20	7100914YP	1	GEAR, External Wheel
0260-30	7501793YP	1	WHEEL ASSEMBLY, 9" x 2" with external gear
0270	7103541YP	2	WHEEL, 8" X 2" Idle w/Db Tread, Brute, Satin Black
0280	7091585SM	4	NUT, Center Lock Hex, 3/8-16, GR 5
0300	7104525YP	2	SPACER, Shaft, 1/2"

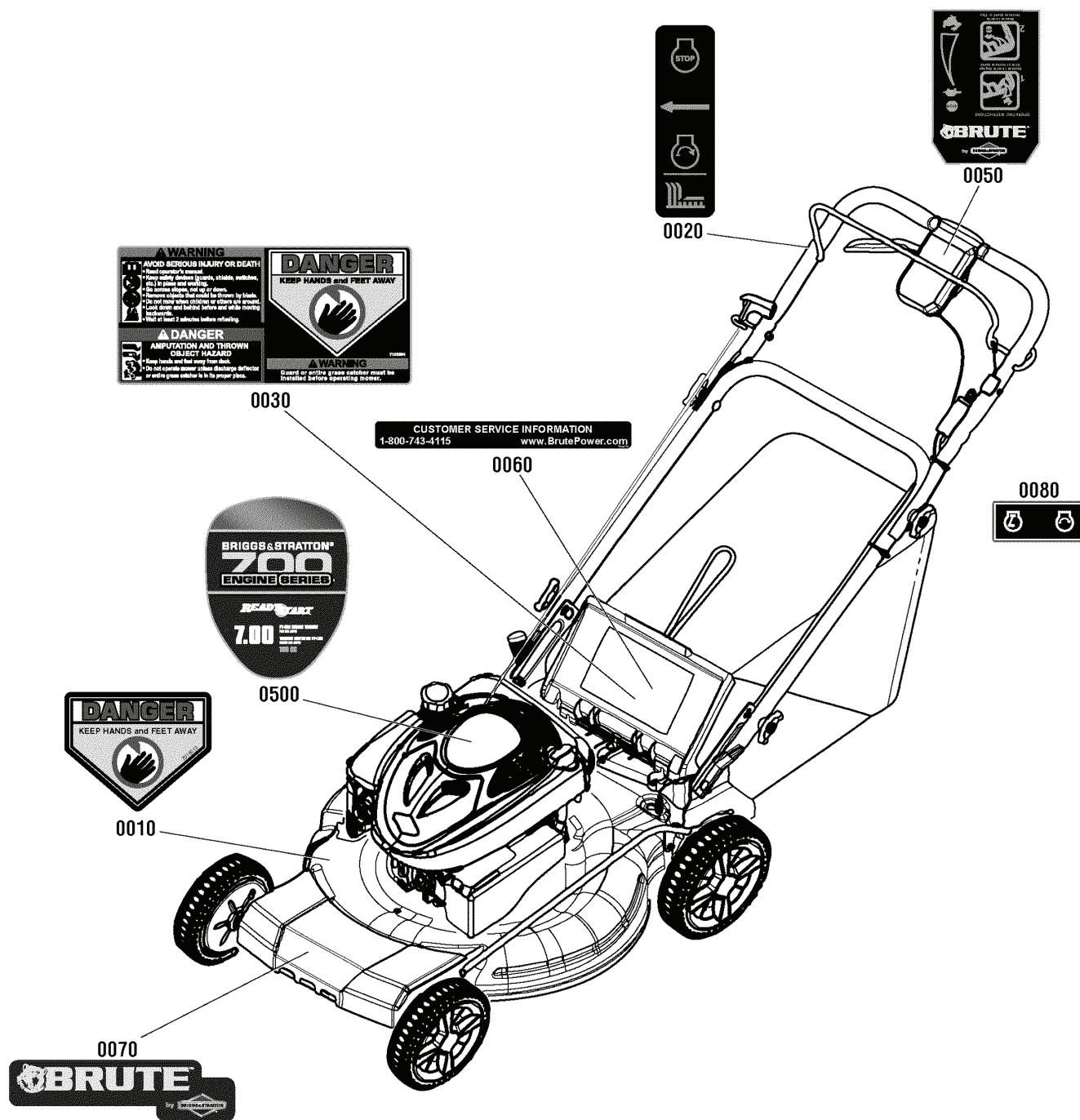
Footnotes

The above parts group applies to the following Mfg. Nos.:

7800822 - BTXVPV22700E

Decals Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:
7800822 - BTXPV22700E

Decals Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	7013010SM	1	DECAL, Danger, Cut Finger
0020	7029782MA	1	DECAL, OPC Bail International Symbol
0030	7101394YP	1	DECAL, Warning, Rear Discharge Door
0050	7101814MA	1	DECAL, Control Head
0060	7102372YP	1	DECAL, Customer Service, Brute
0070	7103545YP	1	DECAL, Brute Walk-Behind Mower
0080	7104877YP	1	DECAL, Ignition, Run-Start
0500	7103549YP	1	DECAL, Engine, 700 Series Quantum

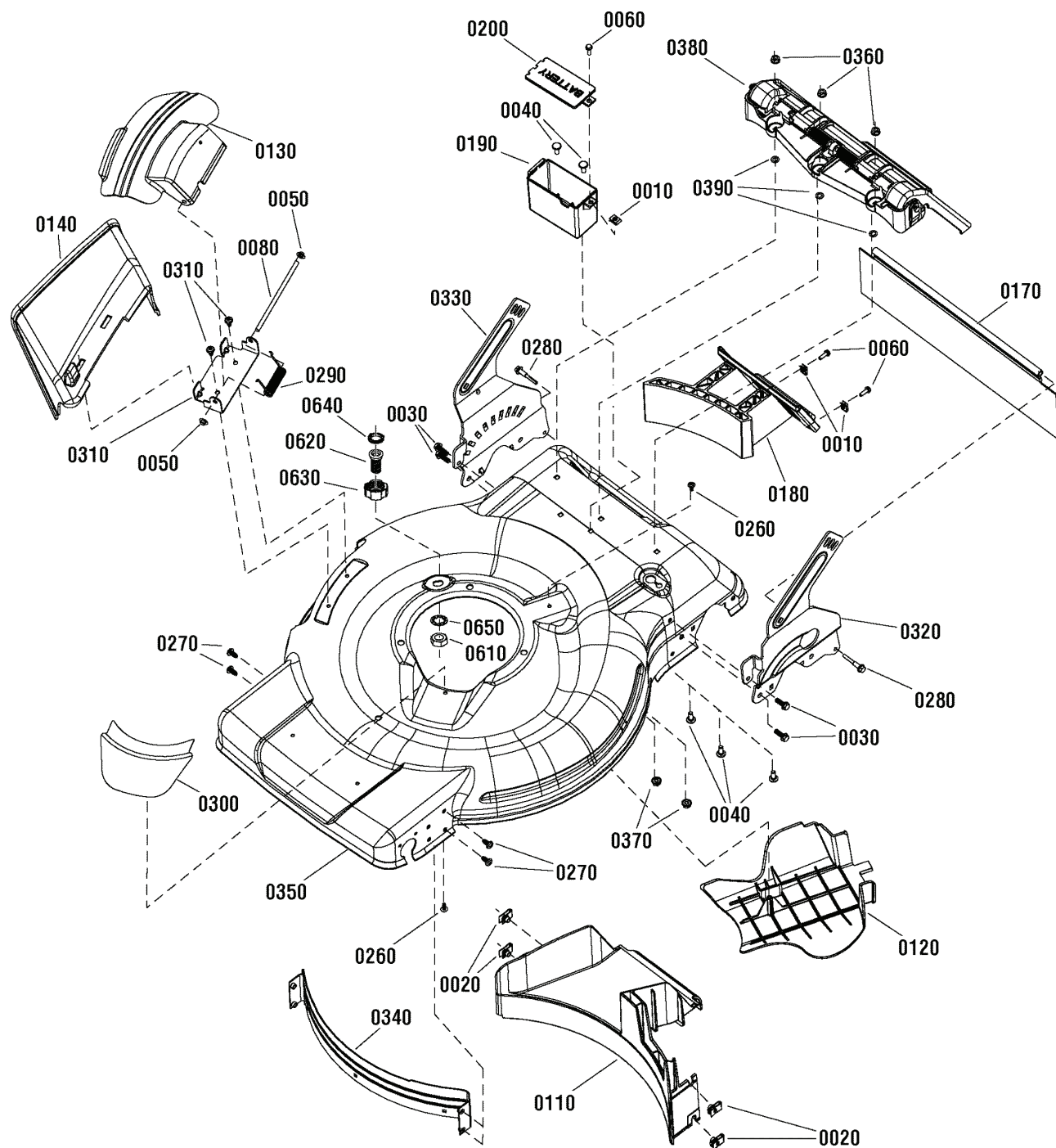
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Footnotes

The above parts group applies to the following Mfg. Nos.:

7800822 - BTPV22700E

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



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Deck Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1960593SM	3	SPEED NUT, #10-24 Retainer with Extrusion
0020	7023295SM	4	U-NUT, 1/4-20
0030	7090699YP	4	BOLT, 1/4-20 x 3/4" Hex Flange Lock, GR 5
0040	7090803YP	5	BOLT, 1/4-20 x 5/8" Flat Head Square Neck, GR 5
0050	7091020YP	2	PUSHNUT, 1/4"
0060	7091075SM	3	SCREW, Hex Washer Self Tap, #10C x 5/8, GR 5
0080	7101067YP	1	ROD, Pivot
0110	7103293YP	1	BAFFLE, Rear, Rear Wheel Drive WBM
0120	7104819YP	1	COVER, Belt Drive, Rear
0130	7103298YP	1	COVER, Mulching
0140	7103299YP	1	CHUTE, Side Discharge, 22" WBM
0170	7103323YP	1	GUARD, Rear 22"
0180	7103453YP	1	PLUG, Mulching, 22" Deck
0190	7103457YP	1	BOTTOM, Battery Box, Miniature
0200	7103458YP	1	TOP, Battery Box, Miniature
0260	7900018YP	2	SCREW, Hi-Lo, 4.8 x 1.59 x 13mm Round Washer Head
0270	7900067YP	6	SCREW, Pan Head, Self Tap, Torx, 1/4-20 x 1/2
0280	7900073YP	2	BOLT, Drag Shield, 1/4 - 20 x 1-1/2
0290	166X38MA	1	SPRING, Torsion, Chute
0300	7103296YP	1	FRONT SHIELD, Debris
0310	7300855BMYP	1	BRACKET, Chute
0320	7300885AYP	1	BRACKET, Lower Handle, LH
0330	7300915AYP	1	BRACKET, Lower Handle, RH
0340	7301020YP	1	BAFFLE, Front
0350	7301113ZYP	1	DECK, 22", RWD, ES, Washout
0360	15X143MA	3	NUT, Flange Lock, 1/4-20
0370	780285MA	2	NUT, 1/4-20 Hex Flange Whiz Lock
0380	7501541YP	1	ASSEMBLY, Door, 22" WBM
0390	1960518SM	3	RETAINER, 1/4" Bolt
--	----	1	WASHOUT PORT ASSEMBLY
0610	1960716SM	1	NUT, 5/8-11 NC-2B Hex Jam
0620	7103804YP	1	ADAPTOR, Washout Port, WBM
0630	7103919YP	1	COUPLING, Hose
0640	7103957YP	1	WASHER, Hose
0650	7090880YP	1	WASHER, Internal Tooth, 5/8

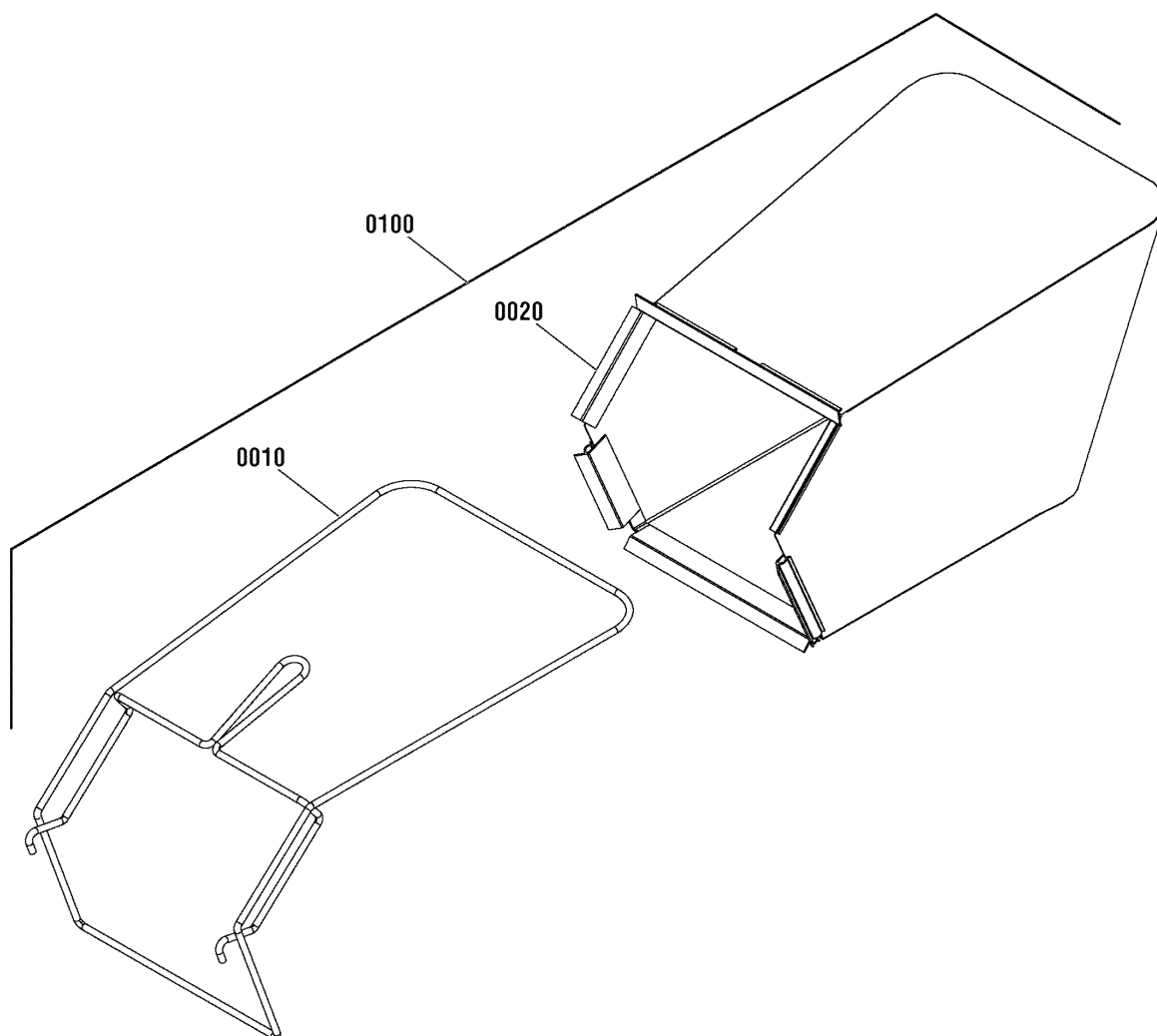
Footnotes

The above parts group applies to the following Mfg. Nos.:

7800822 - BTXPPV22700E

Grass Bagger, 22"

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:
7800822 - BTXPV22700E

Grass Bagger, 22"

REF NO	PART NO.	QTY.	DESCRIPTION
0100	7600107YP	1	KIT, 22" GRASS CATCHER (Incl. Ref. 0010 & 0020)
0010	7103305AYP	1	FRAME, Grass Bag (Included with Ref. No 0100)
0020	7103375YP	1	GRASS BAG, 22" Rear Discharge (Included with Ref. No 0100)

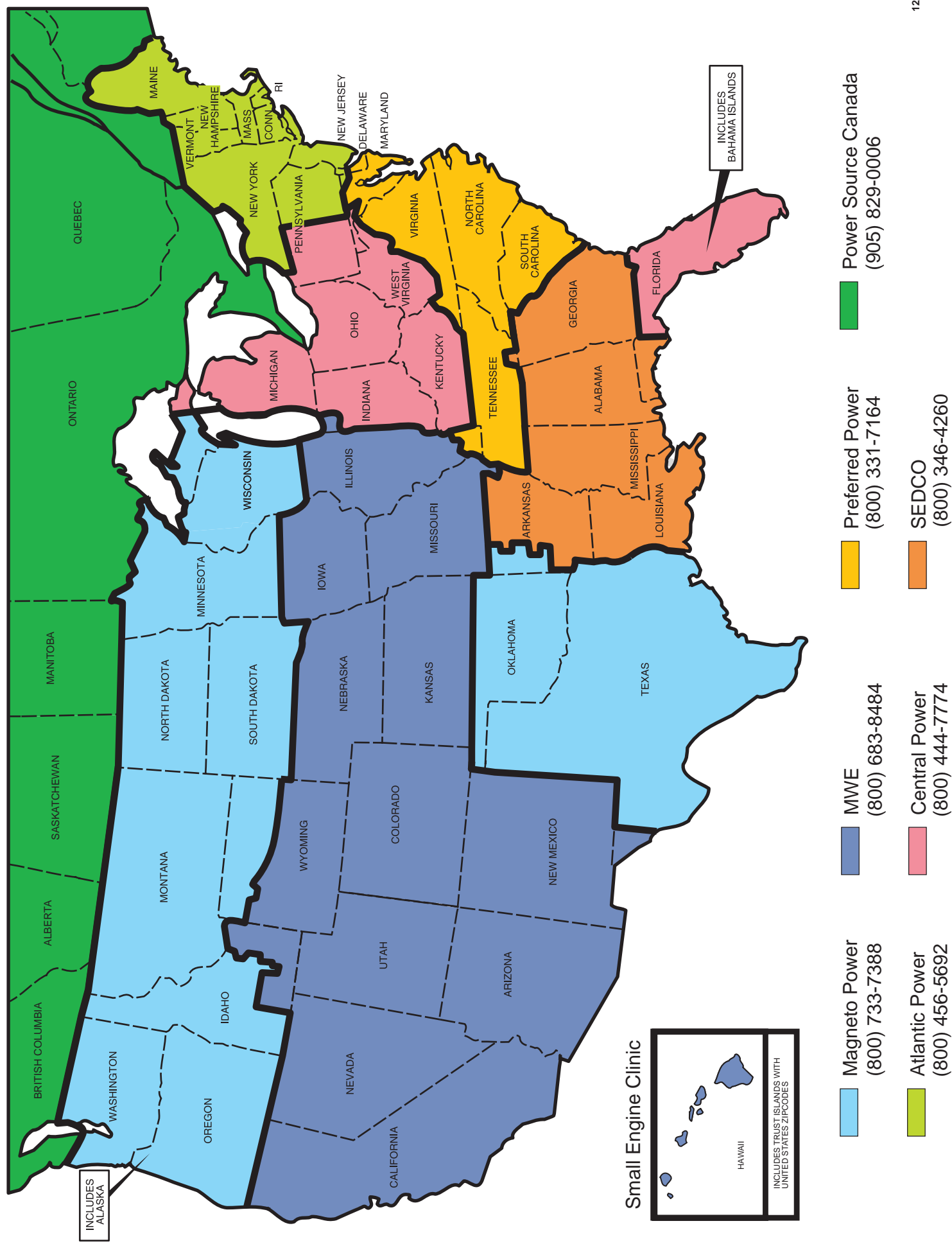
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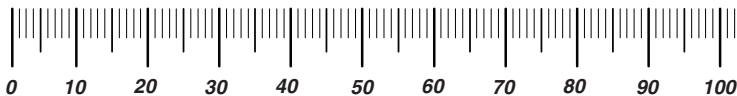
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Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

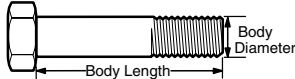
The guides and ruler furnished below are designed to help you select the appropriate hardware.



Nut, M8

Thread
Diameter (mm)
Inside
Diameter (in) Threads
per inch

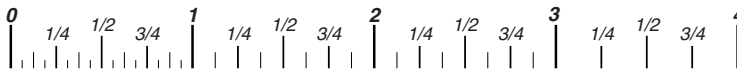
Nut, 1/2-16



Screw, M8- 1.25 x 25

Thread
Diameter (mm) Distance between
threads (mm) Body
Length (mm)
Body
Diameter Threads
per inch Body
Length (in)




Screw, 1/2- 16 x 2



Standard Hardware Sizing

When a washer or nut is identified as **1/2"** (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as **1/2 - 16 x 2"** (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (1.25 thread diameter). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types

Hex Head Capscrew



Washer

Carriage Bolt








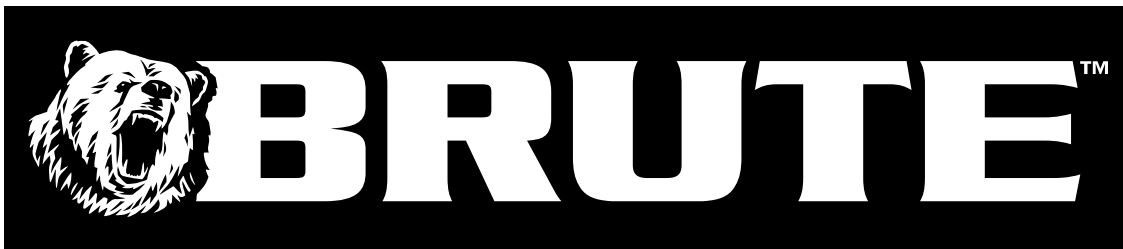
Lockwasher



Hex Nut

Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22 mm



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